

WHAT IS CLAIMED IS:

1. A pulse wave measuring apparatus comprising:
a pressure sensor detecting an intra-arterial pressure waveform superficial of a body,
an acquiring unit acquiring a direct current component from a pressure value
5 output from said pressure sensor, and
a defining unit defining a pressurization force of pressing said pressure sensor against a body surface as an optimum pressurization force when said direct current component is stable.
2. The pulse wave measuring apparatus according to claim 1, wherein said acquiring unit acquires said direct current component from an average value between predetermined intervals of pressure values output from said pressure sensor.
3. The pulse wave measuring apparatus according to claim 1, wherein said acquiring unit acquires said direct current component from an intermediate point between a highest value and a smallest value in a predetermined interval of pressure values output from said pressure sensor.
4. The pulse wave measuring apparatus according to claim 1, wherein said acquiring unit acquires said direct current component using a low pass filter on pressure values output from said pressure sensor.
5. The pulse wave measuring apparatus according to claim 1, further comprising a booster unit altering said pressurization force by applying pressure at one of a constant rate and an arbitrary rate.

6. The pulse wave measuring apparatus according to claim 5, further comprising a first adjustment unit comparing said direct current component at a time when said optimum pressurization force is defined with a direct current component after altering said pressurization force, and carrying out adjustment such that the direct
5 current component after altering said pressurization force does not exceed said direct current component at the time when said optimum pressurization force was defined.

7. The pulse wave measuring apparatus according to claim 1, further comprising a suction unit altering said pressurization force by reducing pressure at one of a constant rate and an arbitrary rate.

8. The pulse wave measuring apparatus according to claim 7, further comprising a first adjustment unit comparing said direct current component at a time when said optimum pressurization force is defined with a direct current component after altering said pressurization force, and carrying out adjustment such that the direct
5 current component after altering said pressurization force does not exceed said direct current component at the time when said optimum pressurization force was defined.

9. The pulse wave measuring apparatus according to claim 1, further comprising:

a determination unit determining whether the pressurization force of said pressure sensor against said body surface is appropriate or not based on a
5 sphygmographic waveform detected by said pressure sensor, and

a second adjustment unit adjusting said pressurization force after defining said optimum pressurization force based on said determination result.

10. A pulse wave measuring apparatus comprising:

a pressure sensor detecting an intra-arterial pressure waveform superficial of a

body, and

5 a determination unit determining whether a pressurization force of said pressure sensor against a body surface is appropriate or not based on a sphygmographic waveform detected with said pressure sensor.

11. The pulse wave measuring apparatus according to claim 10, wherein said determination unit makes determination using a rising sharpness of a peak of said sphygmographic waveform.

12. The pulse wave measuring apparatus according to claim 10, further comprising an adjustment unit adjusting said pressurization force, wherein said determination unit makes determination using distortion of said sphygmographic waveform after adjusting said pressurization force.

13. The pulse wave measuring apparatus according to claim 12, wherein said determination unit uses an AI (Augmentation Index) obtained by said sphygmographic waveform detected with said pressure sensor during determination using distortion of said sphygmographic waveform.

14. A program product of causing a computer to execute control of a pulse wave measuring apparatus including a pressure sensor detecting an intra-arterial pressure waveform superficial of a body, causing the computer to execute the steps of:
5 acquiring a direct current component from a pressure value output from said pressure sensor obtained from said pulse wave measuring apparatus, and
defining a pressurization force of said pressure sensor against a body surface as an optimum pressurization force when said direct current component is stable.

15. A program product of causing a computer to execute control of a pulse

wave measuring apparatus including a pressure sensor detecting an intra-arterial pressure waveform superficial of a body, the program product causing the computer to execute the steps of:

- 5 acquiring a sphygmographic waveform detected with said pressure sensor from said pulse wave measuring apparatus, and
 determining whether a pressurization force of said pressure sensor against a body surface is appropriate or not based on said acquired sphygmographic waveform.